

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A motor stator assembly comprising:

a plurality of yokes ~~fabricated by laminating~~ comprising a laminated plurality of steel sheets having a predetermined length; and

a plurality of poles, on which a coil is wound, the poles engaged between the yokes and ~~formed by molding~~ comprising a molded magnetic material in a mold, ~~on which coil is wound.~~

2. (Currently Amended) The assembly of claim 1, wherein at least one of the poles ~~the pole~~ comprises:

a guide part having a circular arc shape, for collecting magnetic flux;
a winding part portion connected to a rear surface of the guide part, on which the coil is wound; and
~~a connecting part connector~~ formed at a rear surface of the winding part portion and connected to at least one of the yokes ~~the yoke~~.

3. (Currently Amended) The assembly of claim 1, wherein at least one of the poles

comprises the pole is formed of iron powder.

4. (Currently Amended) The assembly of claim 24, wherein further comprising an insulator ~~is attached to~~ an inside of the winding portion ~~part~~ ~~on which coil is wound~~ and the pole for insulating the pole from the coil.

5. (Currently Amended) The assembly of claim 24, wherein further comprising a molded nonconductive material ~~is molded~~ provided at an inner side of the winding portion ~~part~~ ~~on which coil is wound~~ and the pole for insulating the pole from the coil.

6. (Currently Amended) The assembly of claim 5, wherein the nonconductive material ~~is comprises~~ epoxy.

7. (Currently Amended) The assembly of claim 2, wherein the guide ~~part~~ has comprises an inner surface of a circular arc shape, for collecting magnetic flux to a rotor by guiding the rotor.

8. (Currently Amended) The assembly of claim 2, wherein a height and a length of the winding ~~part~~ portion are smaller less than those of a height and a length of the guide ~~part~~, preventing in order to prevent the coil from protruding being protruded out of the guide ~~part~~

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when the coil is wound on the winding part portion and allowing in order to wound the coil to be wound several times, and an outer circumference surface of the winding part portion is formed concavely so that the coil can be wound thereon.

9. (Currently Amended) The assembly of claim 2, wherein an edge, formed at an outer circumference surface of the winding part portion is formed as a curved line in order to prevent coating of the coil from falling off when the coil is wound.

10. (Currently Amended) The assembly of claim 2, wherein the connecting part connector has a circular arc shape and is formed of comprises a plate having a constant height and a width.

11. (Currently Amended) The assembly of claim 10, wherein the yoke is engaged between two different connecting parts connectors and formed in accordance with that a the plurality of yoke plates having of a constant curvature radius therein are laminated as to have a the height of the connecting part connector.

12. (Currently Amended) The assembly of claim 11, wherein a connecting projection and a connecting groove for engaging the yoke and the connecting part connector are formed with the same height as the yoke and the connecting part connector.

13. (Currently Amended) The assembly of claim 1211, wherein the connecting projection ~~of the yoke is protruded as a~~ has a protruding rectangular shape and ~~engaged to~~ engages with a rectangular the connecting groove ~~having a rectangular groove of the~~ connecting part in order to prevent the yoke from being separated from the connecting part connector.

14. (Currently Amended) The assembly of claim 1211, wherein the connecting projection ~~of the yoke is protruded as a~~ has a protruding trapezoid shape and ~~engaged to~~ engages with a trapezoid the connecting groove ~~having a corresponding trapezoid groove of the~~ connecting part.

15. (Currently Amended) The assembly of claim 1211, wherein the connecting projection has two stopping jaws on its sides ~~of the yoke is protruded long with two same~~ stopping jaws at both sides thereof, and ~~engaged to~~ engages with a stopping groove having a groove of a corresponding shape to the connecting part in order to prevent the yoke from being separated from the connecting part connector.

16. (Currently Amended) The assembly of claim 12[[1]],

~~wherein a step projection of a rectangular shape is formed at both ends of the yoke and~~

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~~engaged to a step projection formed at both ends of the connecting part with a corresponding rectangular shape,~~

wherein the connecting projection is protruded with has a protruding step projection and ~~engaged to~~ engages with the connecting groove having a corresponding step projection groove.

17. (Currently Amended) The assembly of claim 12[[1]],

~~wherein the yoke has a constant inclined surface at both ends thereof and a corresponding inclined surface is also formed at both ends of the connecting part, so that the yoke is engaged to the connecting part,~~

wherein the connecting projection comprises an inclined surface and engages with a connecting groove having a corresponding inclined surface.

18. (Currently Amended) A manufacturing method of a motor stator assembly comprising the steps of:

~~a first step of forming a plurality of yoke plates by blanking steel plate of a predetermined shape;~~

~~a second step of forming a yoke by laminating the yoke plates with a predetermined height;~~

~~a third step of forming a predetermined frame by installing the laminated yoke into a~~

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mold;

~~a fourth step of filling magnetic powder material in an empty space of the mold;~~

~~a fifth step of forming a pole engaged to the yoke by applying a predetermined pressure and heat to the filled magnetic powder material; and~~

~~a sixth step of removing the mold and then winding coil to the pole.~~

19. (Currently Amended) The method of claim 18, wherein forming the yoke plates ~~are formed by comprises~~ blanking the steel plate having a predetermined length and a width at a time ~~in the first step.~~

20. (Currently Amended) The method of claim 18, wherein forming the pole ~~is formed in accordance with that comprises pressing and curing~~ the magnetic powder material ~~is pressed and then cured with at 300-500° C thus to be combined one another in the fifth step.~~

21. (Currently Amended) The method of claim 18, wherein further comprising one of ~~attaching~~ an insulator ~~is attached~~ to a contacted part between the pole and the coil, ~~or and~~ ~~molding~~ insulating material ~~is molded~~ ~~an~~ attached thereto ~~in order~~ to wind the coil on the pole.

22. (New) A motor stator assembly comprising:

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a plurality of yokes comprising a laminated plurality of steel sheets having a predetermined length; and

a plurality of poles, on which a coil is wound, engaged between the yokes, the poles comprising a predetermined frame defined by the laminated yoke positioned in a mold, magnetic powder material provided in an empty space of the mold, a predetermined pressure and heat applied to the filled magnetic powder material.